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1 Privacy-preserving data mining

80%



Rakesh Agrawal , Ramakrishnan Srikant

ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data May 2000
Volume 29 Issue 2

A fruitful direction for future data mining research will be the development of techniques that incorporate privacy concerns. Specifically, we address the following question. Since the primary task in data mining is the development of models about aggregated data, can we develop accurate models without access to precise information in individual data records? We consider the concrete case of building a decision-tree classifier from training data in which the values of individual records have ...

2 Intrusion detection: Countering code-injection attacks with instruction-set randomization

77%



Gaurav S. Kc , Angelos D. Keromytis , Vassilis Prevelakis

Proceedings of the 10th ACM conference on Computer and communication security October 2003

We describe a new, general approach for safeguarding systems against *any* type of code-injection attack. We apply Kerckhoff's principle, by creating process-specific randomized instruction sets (e.g., machine instructions) of the system executing potentially vulnerable software. An attacker who does not know the key to the randomization algorithm will inject code that is invalid for that randomized processor, causing a runtime exception. To determine the difficulty of integrating su ...

3 Storing text retrieval systems on CD-ROM: compression and encryption considerations

77%



Shmuel T. Klein , Abraham Bookstein , Scott Deerwester

ACM Transactions on Information Systems (TOIS) July 1989

Volume 7 Issue 3

The emergence of the CD-ROM as a storage medium for full-text databases raises the question of the maximum size database that can be contained by this medium. As an example, the problem of storing the Trésor de la Langue Française on a CD-ROM is examined in this paper. The text alone of this database is 700 megabytes long, more than a CD-ROM can hold. In addition, the dictionary and concordance needed to access these data must be stored. A further constraint is that some of th ...

4 Communication preserving protocols for secure function evaluation 77%

Moni Naor , Kobbi Nissim

Proceedings of the thirty-third annual ACM symposium on Theory of computing

July 2001

A secure function evaluation protocol allows two parties to jointly compute a function $f(x,y)$ of their inputs in a manner not leaking more information than necessary. A major result in this field is: "any function f that can be computed using polynomial resources can be computed securely using polynomial resources" (where "resources" refers to communication and computation). This result follows by a general transfor ...

5 Cache Memories 77%

Alan Jay Smith

ACM Computing Surveys (CSUR) September 1982

Volume 14 Issue 3

6 The Grid File: An Adaptable, Symmetric Multikey File Structure 77%

J. Nievergelt , Hans Hinterberger , Kenneth C. Sevcik

ACM Transactions on Database Systems (TODS) March 1984

Volume 9 Issue 1

Traditional file structures that provide multikey access to records, for example, inverted files, are extensions of file structures originally designed for single-key access. They manifest various deficiencies in particular for multikey access to highly dynamic files. We study the dynamic aspects of file structures that treat all keys symmetrically, that is, file structures which avoid the distinction between primary and secondary keys. We start from a bitmap approach and treat the problem ...

7 Realistic modeling and rendering of plant ecosystems 77%Oliver Deussen , Pat Hanrahan , Bernd Lintermann , Radomír Měch , Matt Pharr ,
Przemysław Prusinkiewicz**Proceedings of the 25th annual conference on Computer graphics and interactive techniques** July 1998**8 Browsing and placement of multiresolution images on parallel disks** 77%

Sunil Prabhakar , Divyakant Agrawal , Amr El Abbadi , Ambuj Singh , Terrence Smith

Proceedings of the fifth workshop on I/O in parallel and distributed systems

November 1997

9 Learning Bayesian classification rules through genetic algorithms 77%

Christoph F. Eick , Daw Jong

Proceedings of the second international conference on Information and knowledge management December 1993**10 Using shared virtual memory for parallel join processing** 77%



Ambuj Shatdal , Jeffrey F. Naughton

ACM SIGMOD Record , Proceedings of the 1993 ACM SIGMOD international conference on Management of data June 1993

Volume 22 Issue 2

In this paper, we show that shared virtual memory, in a shared-nothing multiprocessor, facilitates the design and implementation of parallel join processing algorithms that perform significantly better in the presence of skew than previously proposed parallel join processing algorithms. We propose two variants of an algorithm for parallel join processing using shared virtual memory, and perform a detailed simulation to investigate their performance. The algorithm is unique in that it employ ...

11 A performance analysis of alternative multi-attribute declustering strategies

77%



Shahram Ghandeharizadeh , David J. DeWitt , Waheed Qureshi

ACM SIGMOD Record , Proceedings of the 1992 ACM SIGMOD international conference on Management of data June 1992

Volume 21 Issue 2

During the past decade, parallel database systems have gained increased popularity due to their high performance, scalability and availability characteristics. With the predicted future database sizes and the complexity of queries, the scalability of these systems to hundreds and thousands of processors is essential for satisfying the projected demand. Several studies have repeatedly demonstrated that both the performance and scalability of a parallel database system is contingent on the phy ...

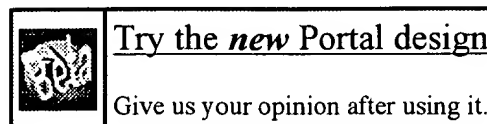
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 Andrew F. Seila
Proceedings of the 33nd conference on Winter simulation December 2001
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 Jerry Banks
Proceedings of the 23rd conference on Winter simulation December 1991
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 David G. Thaler , Chinya V. Ravishankar
IEEE/ACM Transactions on Networking (TON) February 1998
 Volume 6 Issue 1

6 Authentication services for computer networks and electronic messaging systems 77%



Keok Auyong , Chye-Lin Chee

ACM SIGOPS Operating Systems Review July 1997

Volume 31 Issue 3

The paper surveys the authentication services used by modern computer systems and presents the major operational authentication services employed by commercial companies, banking as well as government departments. As distributed system services are susceptible to a variety of threats mounted by intruders as well as legitimate users of the system, password-based authentication is not suitable for use on computer networks.

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